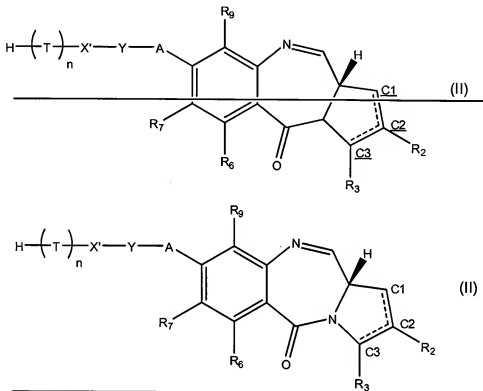


Listing of Claims

1-38. Canceled

39. (Currently amended) A collection of compounds all of which are represented by formula II:



wherein:

A is O, S, NH, or a single bond;

R_2 and R_3 are independently selected from: H, R, OH, OR, =O, =CH-R, =CH₂, CH₂-CO₂R, CH₂-CO₂H, CH₂-SO₂R, O-SO₂R, CO₂R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R_6 , R_7 , and R_9 are independently selected from H, R, OH, OR, halo, nitro, amino, Me₃Sn;

where R is an alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[.]] of up to 12 carbon atoms[[.]] whereof the alkyl group optionally contains one or more carbon-carbon double or triple bonds, which may form part of a conjugated system, or an aryl group[[.]] of up to 12 carbon atoms; and is optionally substituted by one or more halo, hydroxy, amino, or nitro groups, and optionally contains one or more hetero atoms which may form part of, or be, a functional group;

Y is a divalent group such that HY = R;

X' is CO, NH, S or O;

T is an amino acid residue combinatorial unit, where each T may be different if n is greater than 1; and

n is a positive integer from 1 to 16.

40. (Currently amended) A collection of compounds according to claim 39 wherein R and HY are independently selected from lower alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[,]] of up to 12 carbon atoms, or an aryl group[[,]] of up to 12 carbon atoms, optionally substituted by one or more halo, hydroxy, amino, or nitro groups.

41. (Previously presented) A collection of compounds according to claim 39, wherein R and HY are independently selected from lower alkyl groups having 1 to 10 carbon atoms optionally substituted by one or more halo, hydroxy, amino, or nitro groups.

42. (Previously presented) A collection of compounds according to claim 39, wherein R or HY are independently selected from unsubstituted straight or branched chain alkyl groups, having 1 to 10 carbon atoms.

43. (Previously presented) A collection of compounds according to claim 39 wherein R₇ is an electron donating group.

44. (Previously presented) A collection of compounds according to claim 39 wherein R₈ and R₉ are H.

45. (Previously presented) A collection of compounds according to claim 39, wherein R₂ and R₃ of are H.

46. (Previously presented) A collection of compounds according to claim 45, wherein R₇ is an alkoxy group.

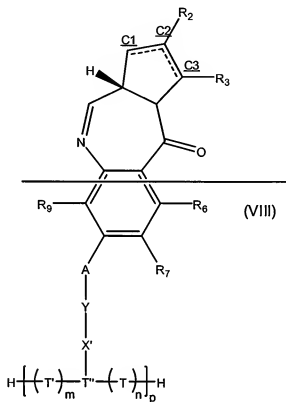
47. (Previously presented) A collection of compounds according to claim 39 wherein there is no double bond between C2 and C3.

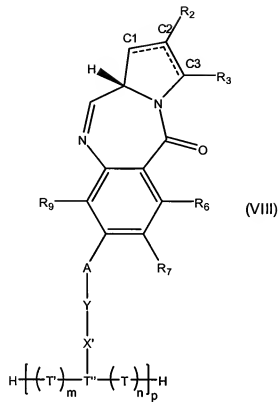
48. (Previously presented) A collection of compounds according to claim 39, wherein -Y-A- is an alkoxy chain.

49. (Previously presented) A collection of compounds according to claim 39, wherein X' is either CO or NH.

50. Canceled.

51. (Currently amended) A collection of compounds all of which are represented by formula VIII:





wherein:

A is O, S, NH, or a single bond;

R₂ and R₃ are independently selected from: H, R, OH, OR, =O, =CH-R, =CH₂, CH₂-CO₂R, CH₂-CO₂H, CH₂-SO₂R, O-SO₂R, CO₂R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R₆, R₇, and R₉ are independently selected from H, R, OH, OR, halo, nitro, amino, Me₃Sn;

where R is an alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[,]] of up to 12 carbon atoms[[,]] whereof the alkyl group optionally contains one or more carbon-carbon double or triple bonds, which may form part of a conjugated system, or an aryl group[[,]] of up to 12 carbon atoms; and is optionally substituted by one or more halo, hydroxy, amino, or nitro groups, and optionally contains one or more hetero atoms which may form part of, or be, a functional group;

Y is a divalent group such that HY = R;

X' is CO, NH, S or O;

T is an amino acid residue combinatorial unit, where each T may be different if n is greater than 1;

n is a positive integer from 1 to 16;

m is a positive integer from 1 to 16;

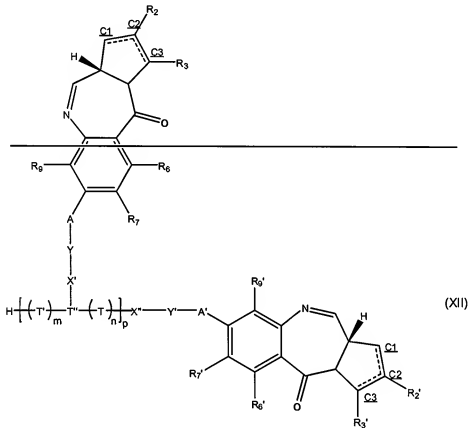
T' is an amino acid residue combinatorial unit, where each T' may be different if m is

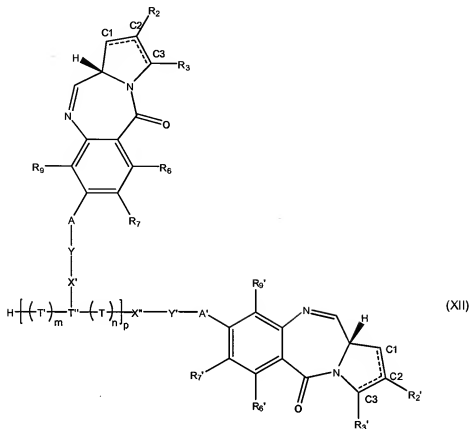
greater than 1;

T^m is an amino acid residue combinatorial unit which provides a site for the attachment of X'; and

p is a positive integer from 1 to 16, where if p is greater than 1, for each repeating unit the meaning of X', Y, A, R₁, R₂, R₃, R₄, R₅, R₆, R₇, R₈, T, T', T^m and values of n and m are independently selected.

52. (Currently amended) A collection of compounds all of which are represented by formula XII:





wherein:

A is O, S, NH, or a single bond;

R₂ and R₃ are independently selected from: H, R, OH, OR, =O, =CH-R, =CH₂, CH₂-CO₂R, CH₂-CO₂H, CH₂-SO₂R, O-SO₂R, CO₂R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R₅, R₇, and R₉ are independently selected from H, R, OH, OR, halo, nitro, amino, Me₃Sn;

where R is an alkyl group having 1 to 10 carbon atoms, or an aralkyl group[.], of up to 12 carbon atoms[.], whereof the alkyl group optionally contains one or more carbon-carbon double or triple bonds, which may form part of a conjugated system, or an aryl group[.], of up to 12 carbon atoms; and is optionally substituted by one or more halo, hydroxy, amino, or nitro groups, and optionally contains one or more hetero atoms which may form part of, or be, a functional group;

Y is a divalent group such that HY = R;

X' is CO, NH, S or O;

T is an amino acid residue combinatorial unit, where each T may be different if n is greater than 1;

n is a positive integer from 1 to 16;

m is a positive integer from 1 to 16;

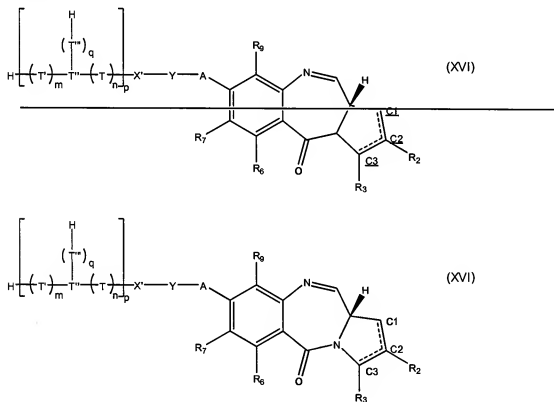
T' is an amino acid residue combinatorial unit, where each T' may be different if m is greater than 1;

T'' is an amino acid residue combinatorial unit which provides a site for the attachment of X'; and

p is a positive integer from 1 to 16, where if p is greater than 1, for each repeating unit the meaning of X', Y, A, R₁, R₂, R₃, R₆, R₇, R₈, T, T', T'' and values of n and m are independently selected; and

X'', Y', A', R'₁, R'₂, R'₃, R'₆, R'₉ are selected from the same possibilities as X', Y, A, R₁, R₂, R₃, R₆, and R₉ respectively.

53. (Currently amended) A collection of compounds all of which are represented by formula XVI:

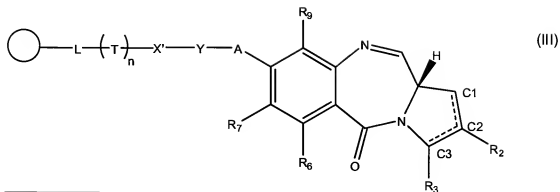


wherein:

A is O, S, NH, or a single bond;

R₂ and R₃ are independently selected from: H, R, OH, OR, =O, =CH-R, =CH₂, CH₂-CO₂R, CH₂-CO₂H, CH₂-SO₂R, O-SO₂R, CO₂R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R₆, R₇, and R₉ are independently selected from H, R, OH, OR, halo, nitro, amino, Me₃Sn;



wherein:

A is O, S, NH, or a single bond;

R₂ and R₃ are independently selected from: H, R, OH, OR, =O, =CH-R, =CH₂, CH₂-CO₂R, CH₂-CO₂H, CH₂-SO₂R, O-SO₂R, CO₂R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R₆, R₇, and R₉ are independently selected from H, R, OH, OR, halo, nitro, amino, Me₃Sn;

where R is an alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[,]] of up to 12 carbon atoms[[,]] whereof the alkyl group optionally contains one or more carbon-carbon double or triple bonds, which may form part of a conjugated system, or an aryl group[[,]] of up to 12 carbon atoms; and is optionally substituted by one or more halo, hydroxy, amino, or nitro groups, and optionally contains one or more hetero atoms which may form part of, or be, a functional group;

Y is a divalent group such that HY = R;

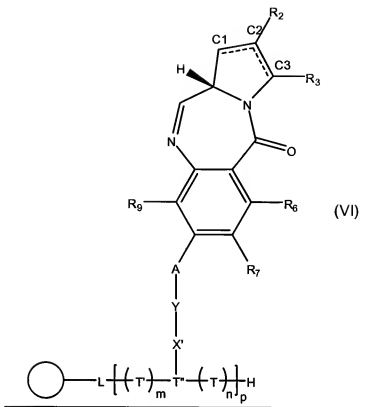
X' is CO, NH, S or O;

T is an amino acid residue combinatorial unit, where each T may be different if n is greater than 1;

n is a positive integer from 1 to 16;

L is a linking group, or a single bond; and

○ is a solid support.



wherein:

A is O, S, NH, or a single bond;

R₂ and R₃ are independently selected from: H, R, OH, OR, =O, =CH-R, =CH₂, CH₂-CO₂R, CH₂-CO₂H, CH₂-SO₂R, O-SO₂R, CO₂R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R₆, R₇, and R₉ are independently selected from H, R, OH, OR, halo, nitro, amino, Me₃Sn;

where R is an alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[.]] of up to 12 carbon atoms[[.]] whereof the alkyl group optionally contains one or more carbon-carbon double or triple bonds, which may form part of a conjugated system, or an aryl group[[.]] of up to 12 carbon atoms; and is optionally substituted by one or more halo, hydroxy, amino, or nitro groups, and optionally contains one or more hetero atoms which may form part of, or be, a functional group;

Y is a divalent group such that HY = R;

X' is CO, NH, S or O;

T is an amino acid residue combinatorial unit, where each T may be different if n is greater than 1;

L is a linking group, or a single bond;

⊙ is a solid support;

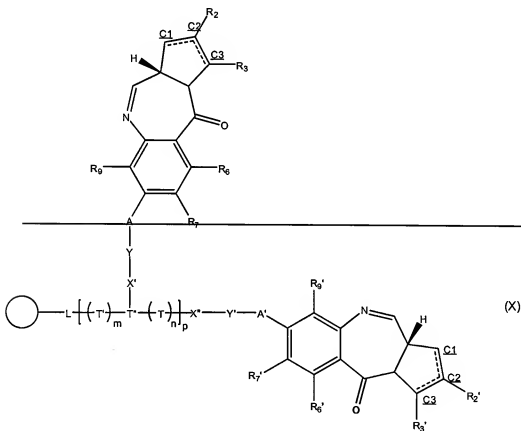
n and m are positive integers from 1 to 16, or one of them may be zero;

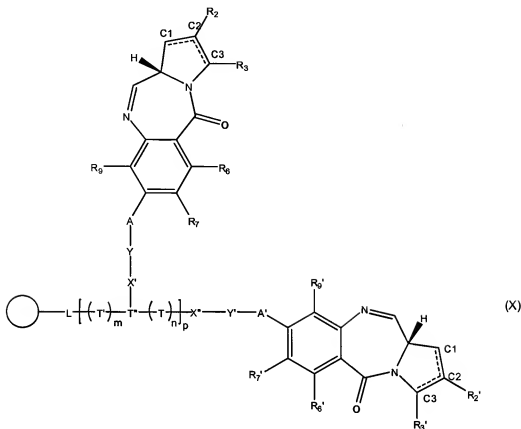
T' is an amino acid residue combinatorial unit, where each T' may be different if m is greater than 1;

T'' is an amino acid residue combinatorial unit which provides a site for the attachment of X'; and

p is a positive integer from 1 to 16, where if p is greater than 1, for each repeating unit, the meaning of X', Y, A, R₂, R₃, R₆, R₇, R₉, T, T', T'' and the values of n and m are independently selected.

56. (Currently amended) A collection of compounds all of which are represented by formula X:





wherein:

A is O, S, NH, or a single bond;

R₂ and R₃ are independently selected from: H, R, OH, OR, =O, =CH-R, =CH₂, CH₂-CO₂R, CH₂-CO₂H, CH₂-SO₂R, O-SO₂R, CO₂R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R₆, R₇, and R₈ are independently selected from H, R, OH, OR, halo, nitro, amino, Me₃Sn;

where R is an alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[,]] of up to 12 carbon atoms[[,]] whereof the alkyl group optionally contains one or more carbon-carbon double or triple bonds, which may form part of a conjugated system, or an aryl group[[,]] of up to 12 carbon atoms; and is optionally substituted by one or more halo, hydroxy, amino, or nitro groups, and optionally contains one or more hetero atoms which may form part of, or be, a functional group;

Y is a divalent group such that HY = R;

X' is CO, NH, S or O;

T is an amino acid residue combinatorial unit, where each T may be different if n is greater than 1;

L is a linking group, or a single bond;

⊙ is a solid support;

n and m are positive integers from 1 to 16, or one of them may be zero;

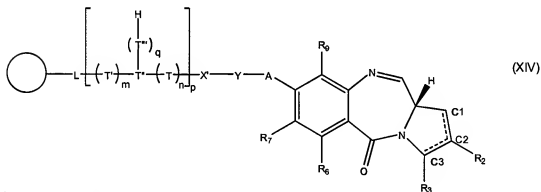
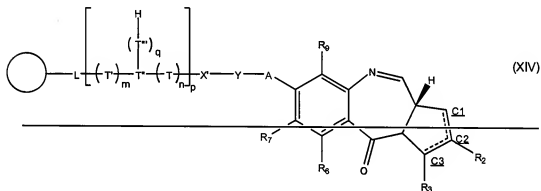
T' is an amino acid residue combinatorial unit, where each T' may be different if m is greater than 1;

T'' is an amino acid combinatorial unit which provides a site for the attachment of X';

p is a positive integer from 1 to 16, where if p is greater than 1, for each repeating unit, the meaning of X', Y, A, R₂, R₃, R₆, R₇, R₉, T, T', T'' and the values of n and m are independently selected; and

X'', Y', A', R'₂, R'₃, R'₆, R'₇ and R'₉ are selected from the same possibilities as X', Y, A, R₂, R₃, R₆, R₇ and R₉.

57. (Currently amended) A collection of compounds all of which are represented by formula XIV:



wherein:

A is O, S, NH, or a single bond;

R₂ and R₃ are independently selected from: H, R, OH, OR, =O, =CH-R, =CH₂, CH₂-CO₂R, CH₂-CO₂H, CH₂-SO₂R, O-SO₂R, CO₂R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R₆, R₇, and R₉ are independently selected from H, R, OH, OR, halo, nitro, amino, Me₃Sn;

where R is an alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[,]] of up to 12 carbon atoms[[,]] whereof the alkyl group optionally contains one or more carbon-carbon double or triple bonds, which may form part of a conjugated system, or an aryl group[[,]] of up to 12 carbon atoms; and is optionally substituted by one or more halo, hydroxy, amino, or nitro groups, and optionally contains one or more hetero atoms which may form part of, or be, a functional group;

Y is a divalent group such that HY = R;

X' is CO, NH, S or O;

T is an amino acid residue combinatorial unit, where each T may be different if n is greater than 1;

L is a linking group, or a single bond;

⊙ is a solid support;

n and m are positive integers from 1 to 16, or one of them may be zero;

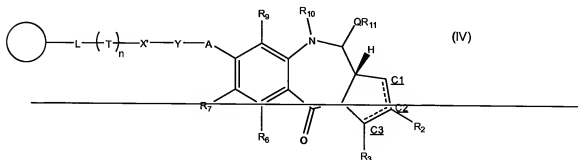
T' is an amino acid residue combinatorial unit, where each T' may be different if m is greater than 1;

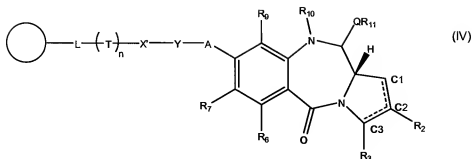
T'' is an amino acid residue combinatorial unit which provides a site for the attachment of X';

p is a positive integer from 1 to 16, where if p is greater than 1, for each repeating unit, the meaning of X', Y, A, R₆, R₇, R₉, R₁₀, R₁₁, T, T', T'' and the values of n and m are independently selected; and

T''' and q are selected from the same possibilities as T and n respectively, and where if p is greater than 1, for each repeating unit the meaning of T, T', T'', T''' and the values of n, m and q may be independently selected.

58. (Currently amended) A collection of compounds all of which are represented by formula IV:





wherein:

A is O, S, NH, or a single bond;

R₂ and R₃ are independently selected from: H, R, OH, OR, =O, =CH-R, =CH₂, CH₂-CO₂R, CH₂-CO₂H, CH₂-SO₂R, O-SO₂R, CO₂R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R₆, R₇, and R₈ are independently selected from H, R, OH, OR, halo, nitro, amino, Me₃Sn;

where R is an alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[.]] of up to 12 carbon atoms[[.]] whereof the alkyl group optionally contains one or more carbon-carbon double or triple bonds, which may form part of a conjugated system, or an aryl group[[.]] of up to 12 carbon atoms; and is optionally substituted by one or more halo, hydroxy, amino, or nitro groups, and optionally contains one or more hetero atoms which may form part of, or be, a functional group;

Y is a divalent group such that HY = R;

X' is CO, NH, S or O;

T is an amino acid residue combinatorial unit, where each T may be different if n is greater than 1;

L is a linking group, or a single bond;

⊙ is a solid support;

n is a positive integer from 1 to 16;

R₁₁ is either H or R;

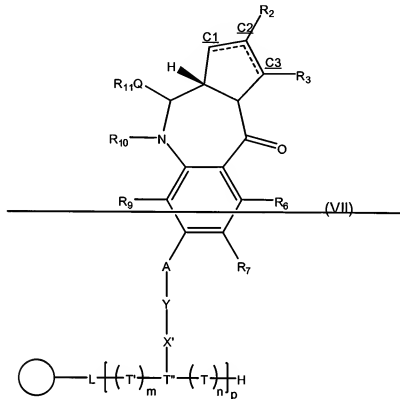
Q is S, O or NH; and

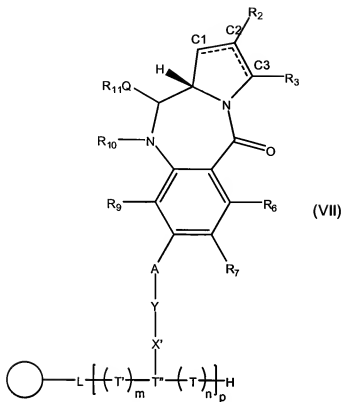
R₁₀ is a nitrogen protecting group.

59. (Previously presented) A collection of compounds according to claim 58, wherein R₁₀ has a carbamate functionality where it binds to the nitrogen atom at the 10 position of a PBD ring structure.

60. (Previously presented) A collection of compounds according to claim 58, wherein Q is O, and/or R₁₁ is H.

61. (Currently amended) A collection of compounds all of which are represented by formula VII:





wherein:

A is O, S, NH, or a single bond;

R₂ and R₃ are independently selected from: H, R, OH, OR, =O, =CH-R, =CH₂, CH₂-CO₂R, CH₂-CO₂H, CH₂-SO₂R, O-SO₂R, CO₂R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R₆, R₇, and R₉ are independently selected from H, R, OH, OR, halo, nitro, amino, Me₃Sn;

where R is an alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[.]] of up to 12 carbon atoms[[.]] whereof the alkyl group optionally contains one or more carbon-carbon double or triple bonds, which may form part of a conjugated system, or an aryl group[[.]] of up to 12 carbon atoms; and is optionally substituted by one or more halo, hydroxy, amino, or nitro groups, and optionally contains one or more hetero atoms which may form part of, or be, a functional group;

Y is a divalent group such that HY = R;

X' is CO, NH, S or O;

T is an amino acid residue combinatorial unit, where each T may be different if n is greater than 1;

L is a linking group, or a single bond;

⊙ is a solid support;

n and m are positive integers from 1 to 16, or one of them may be zero;

T' is an amino acid residue combinatorial unit, where each T' may be different if m is greater than 1;

T'' is an amino acid residue combinatorial unit which provides a site for the attachment of X';

~~p is a positive integer from 1 to 16;~~

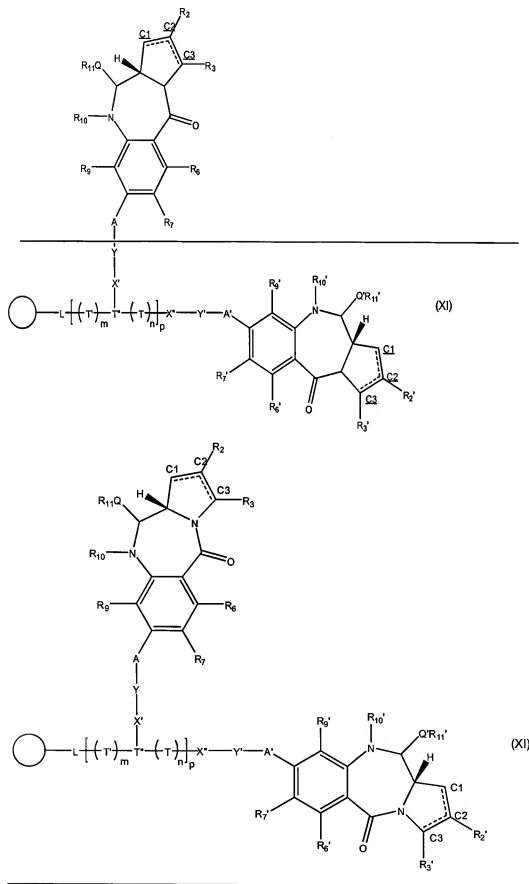
R₁₁ is either H or R;

Q is S, O or NH;

R₁₀ is a nitrogen protecting group; and

~~where if p is greater than 1, for each repeating unit the meanings of X', Y, A, R₂, R₃, R₆, R₇, R₈, T, T', T'', Q, R₁₀, R₁₁ and the values of n and m are independently selected.~~

62. (Currently amended) A collection of compounds all of which are represented by formula XI:



wherein:

A is O, S, NH, or a single bond;

R₂ and R₃ are independently selected from: H, R, OH, OR, =O, =CH-R, =CH₂, CH₂-CO₂R, CH₂-CO₂H, CH₂-SO₂R, O-SO₂R, CO₂R, COR, CN and there is optionally a double bond between C1 and C2 or C2 and C3;

R₆, R₇, and R₉ are independently selected from H, R, OH, OR, halo, nitro, amino, Me₃Sn;

where R is an alkyl group having 1 to 10 carbon atoms, or an aralkyl group[[.]] of up to 12 carbon atoms[[.]] whereof the alkyl group optionally contains one or more carbon-carbon double or triple bonds, which may form part of a conjugated system, or an aryl group[[.]] of up to 12 carbon atoms; and is optionally substituted by one or more halo, hydroxy, amino, or nitro groups, and optionally contains one or more hetero atoms which may form part of, or be, a functional group;

Y is a divalent group such that HY = R;

X' is CO, NH, S or O;

T is an amino acid residue combinatorial unit, where each T may be different if n is greater than 1;

L is a linking group, or a single bond;

⊙ is a solid support;

n and m are positive integers from 1 to 16, or one of them may be zero;

T' is an amino acid residue combinatorial unit, where each T' may be different if m is greater than 1;

T'' is an amino acid residue combinatorial unit which provides a site for the attachment of X';

~~p is a positive integer from 1 to 16;~~

R₁₁ is either H or R;

Q is S, O or NH;

R₁₀ is a nitrogen protecting group; and

Q', R'₁₀, R'₁₁, have the same definitions as Q, R₁₀, R₁₁, respectively, ~~and where if p is greater than 1, for each repeating unit the meanings of X', Y, A, R₂, R₃, R₆, R₇, R₉, T, T', T'', Q, R₁₀, R₁₁, and the values of n and m are independently selected.~~

⊙ is a solid support;

n and m are positive integers from 1 to 16, or one of them may be zero;

T' is an amino acid residue combinatorial unit, where each T' may be different if m is greater than 1;

T'' is an amino acid residue combinatorial unit which provides a site for the attachment of X';

~~p is a positive integer from 1 to 16, where if p is greater than 1, for each repeating unit, the meaning of X', Y, A, R₁, R₂, R₃, R₄, R₅, R₆, T, T', T'' and the values of n and m are independently selected;~~

T''' and q are selected from the same possibilities as T and n respectively, and where if p is greater than 1, for each repeating unit the meaning of T, T', T'', T''' and the values of n, m and q may be independently selected;

R₁₁ is either H or R;

Q is S, O or NH;

R₁₀ is a nitrogen protecting group;

64. Canceled.